5/9/1 DIALOG(R) File 351: DERWENT WPI (c) 1997 Derwent Info Ltd. All rts. reserv. 003759110 WPI Acc No: 83-755321/198336 XRAM Acc No: C83-085140 XRPX Acc No: N83-156920 Anti-reflection plastic optical parts - obtd. by applying compsn. contg. colloidal silica, silicon cpd. and hydrolysed silicon cpd. Patent Assignee: NIPPON SHEET GLASS CO LTD (NIPG ) Number of Countries: 001 Number of Patents: 002 Patent Family: Applicat No Kind Date Main IPC Week Patent No Kind Date 198336 B JP 58126502 A 19830728 199048 JP 90051163 B 19901106 JP 829895 A 19820125 Priority Applications (No Type Date): JP 829895 A 19820125 Patent Details: Application Patent Kind Lan Pg Filing Notes Patent JP 58126502 A Abstract (Basic): JP 58126502 A Optical parts are obtd. by forming anti-reflection film of 0.05-1 microns physical thickness on at least a surface of plastic optical part by applying a compsn. contg' one or more selected from colloidal silica, silicon cpd. of formula RlaSi(OR2)4-a (I) (e.g. tetramethoxysilane, tetraethoxysilane, (3,3,3-trifluoropropyl) trimethoxysilane, etc.) and hydrolysate of the silicon cpd. and hardening. In (I), R1 is organic gp. having a F atom, R2 is 1-4C hydrocarbon gp., alkoxyalkyl gp. or 1-4C acyl gp., and a is 0-3. Plastic optical parts are made of polycarbonate, polyacrylate, polystyrene, PVC, etc. The optical thickness of the anti-reflection film is 1000-2000 angstroms. The surface is plastic optical parts are previously imparted with e.g. polysiloxane system anti-abrasion film. Plastic optical parts having abrasion resistance can be obtd. Title Terms: ANTI; REFLECT; PLASTIC; OPTICAL; PART; OBTAIN; APPLY; COMPOSITION; CONTAIN; COLLOID; SILICA; SILICON; COMPOUND; HYDROLYSIS; SILICON; COMPOUND Derwent Class: A89; G02; P73; P81 International Patent Class (Additional): B32B-027/00; C08J-007/04; G02B-001/10 File Segment: CPI; EngPI Manual Codes (CPI/A-N): A06-A00E1; A12-B07; A12-L03; G02-A05 Plasdoc Codes (KS): 0210 0231 1306 1971 2437 2592 2654 2657 2726 3310 2851 1292 0486 0304 0209 0759 Polymer Fragment Codes (PF): \*001\* 013 04- 05- 062 064 143 155 157 158 229 38- 431 443 477 516 521 55-57& 575 596 597 598 649 \*002\* 013 04- 05- 062 064 074 081 229 38- 431 443 477 516 521 55- 57& 575 596 597 598 649 688 \*003\* 013 04- 05- 055 056 062 064 229 38- 431 443 477 516 521 55- 57& 575

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